

Blue Canyon Wind Farm Turbine Dimensions



Wind Turbine: 328-ft.
Base to tip of upright blade

Blade:

Three blades per unit
115-ft. in length 9.5 tons each
Fiberglass - hollow center
Made in North Dakota

Hub:

20 tons
Holds three blades
Made in Denmark

Nacelle:

51 tons
Houses generator & gearbox
Made in Denmark

Turbine Capabilities:

Each of the 45 turbines (Phase 1) is capable of producing 1.65 megawatts for a total capacity of 74.25 megawatts. This can meet the electrical needs of over 20,000 homes. Blades start turning clockwise in winds of 5 mph & shut down at 63 mph.

Top Tower Section: 41.5 tons



Middle Tower Section: 46.8 tons

Tower Delivery:

Towers were delivered by truck in three sections & bolted together on site. Tower is 230-ft. tall & made of one-inch steel. Made in Louisiana

Bottom Tower Section: 43.3 tons

Transformer

Turbine Base

Entire Machine Weight:

231.1 tons

Hole for Tower: 21' x 21' x 17'
30 trucks of concrete required to fill each hole.

